APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Model Studies on the Regeneration of Silica-Alumina Cracking Catalysts. I. Method of Study and the Coke Distribution in a Particle of Silica-Alumina Bead Catalyst, by D. P. Dobychin, Ts. M. Klibanova.

RUSSIAN, Zhur. Zhur Fiz Khim, Vol XXXIII, No 4, 1959, pp 869-876,

ATS RJ-1893

Sci - Chem
Dec 59

104,072

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Effect of the Conditions of Preparing Silica and Alumina Hydrogels on the Structure and Activity of Mixed Silica-Alumina Catalysts, by M. A. Kallko, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 4, 1959, pp 922-929,

ATS RJ-1894

Sci - Chem
Dec 59

104,073

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Study of the Mechanism of Electrochemical Corrosion of Titanium, by N. D. Tomashov, R. M. Al'tovskiy.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 5, 1956, pp 781-783.

DSIR LLU RTS 1510

Sci - Chem

Aug 60

122,509

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Study on the Kinetics of Ion Exchange
Sorption II. The Kinetics of Exchange
With the Participation of Hydrogen Ions.
by O. P. Fedoseyeva, et al.

RUSSIAN, pap, Zhur Fiz Khim, Vol XXXIII,
No 4, 1959, pp 936-942.

CSIRO

Sci - Phys 203,353
Jun 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Fedoseeva, O. P., Chernyaeva, E. P., and Tunitskii, N. N.
STUD[Y OF] THE KINETICS OF ION EXCHANGE SORPTION. II. KINETICS OF EXCHANGE WITH PARTICIPATION OF HYDROGEN IONS [Issledovanie Kinetiki Ionoobmennoi Sorbtsii. II. Kinetika Obmena s Uchastiem Vodorodnykh Ionov]. [1961] [9]p. 7 refs. Order from OTS or SLA $1.10 62-10229

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1959, v. 33 [no. 4] p. 936-942.
Another trans. is available from LC or SLA mi$1.80, ph$1.80 as 61-13398, DSIR NLL M.2037 [1960] 8p.

DESCRIPTORS: *Ion exchange resins, Resins, *Hydrogen, Sodium, Rubidium, *Ions, Exchange reactions, Reaction kinetics, Adsorption, Diffusion.

For abstract see Technical Translations 5: 297, 1961. (Chemistry--Physical, TT, v. 7, no. 10)

62-10229

I. Fedoseeva, O. P.
II. Chernyaeva, E. P.
III. Tunitskii, N. N.
IV. Title: Kinetics. . .

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Catalytic Properties of the System Pt + Au,
by A. A. Alchudzhan, M. A. Indzhikyan,

RUSSIAN, per. Zhur Fiz Khim, Vol XXXIII, No 5,
1959, pp 983-987.

ATS RJ-2159

Sci - Chem

May 60

115,440

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Aykazyan, E. A.
PASSIVATION OF THE PLATINUM ELECTRODE (O Passivatsii Platinovogo Elektroda). Apr 61 [13]p.
16 refs. RTS 1797.
Order from OTS or SLA $1.60 61-19671

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959. v. 33, no. 5, p. 1016-1022.

DESCRIPTORS: Electrodes, *Platinum electrodes, Electrochemistry, *Passivity, *Polarization.

(Chemistry--Physical, TT, v. 6, no. 2)

61-19671

I. Aykazyan, E. A.
II. RTS-1797
III. Department of Scientific and Industrial Research (Gt. Brit.)

10150

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Model Studies of Regeneration of Silica-Alumina Cracking Catalysts. II. Burning-off of Surface Coke and General Kinetic Relationships of the Process, by D. P. Dobychin, Ts. M. Klibanova, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, 1959, pp 1023-1029.

ATS-06L37R
ATS-RJ-2280
185, 865

Sci
Vol IV, No 2
Mar 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Acidity Function of the Methyl Ether-BF_3 System,
by G. B. Manelis.

RUSSIAN, par, Zhur Fiz Khim, Vol XXXIII, No 5,
1959, pp 1030-1034.

MLL RMB 2232

Sci -
Jul 63

258,182

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Self-Diffusion of Dibasic Phosphate Ion in the System Water-Electrolyte-Nonelectrolyte, by P. Ya. Siver, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 5, 1959, pp 1065-1070.

SLA 60-17727

Sci

129,408

OTS, Vol IV, No 3

Sep 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Photocatalytic Properties of Zinc Oxide in the Reduction of Methylene Blue. 4. Poisoning of the Photocatalysts by Nitro Compounds, by I. N. Barshchevskiy.

RUSSIAN, per, Zhur Fiz Khim, Vol. XXXIII, No 5, 1959, pp 1071-1079.

DSIR LLU RTS 1537

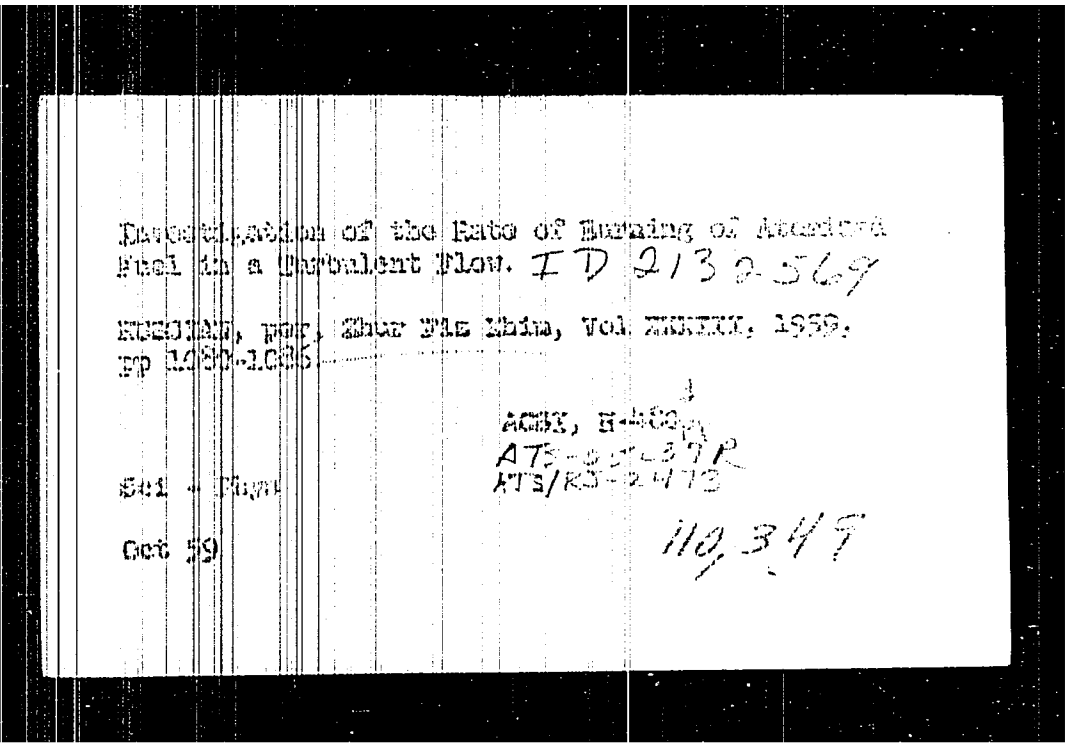
Sci - Chem

Sep 60

125,547

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Investigation of the Rate of Burning of Powders Fired in a Turbulent Flow. ID 2132-569

KUSHIAO, Fan, Zhur Fiz Khim, Vol XXXIII, 1959, pp 1080-1086

ACSI, G-2/69
ATS-S-2139R
ATS/RS-2473

Sol - Pamf

Oct 59

110,347

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Vasil'yev, S. S.
KINETIC ANALYSIS OF CHAIN REACTIONS. V. REARRANGEMENT OF THE FORM OF THE SOLUTIONS OF THE BASIC EQUATIONS OF THE KINETICS OF CHAIN REACTIONS FOR THE CASE OF TWO ACTIVE SPECIES (Kineticheskiy Analiz Tsepnykh Reaktsii. V. Preobrazovaniye Formy Resheniy Osnovnykh Uravneniy Kinetiki Tsepnykh Reaktsiy dlya Sluchaya Dvukh Aktivnykh Chastits). Jan 61 [16]p. 9 refs. RTS 1739.
Order from LC or SLA mi$2.40, ph$3.30 61-15732

Trans. of Zhur[nal] Fiz[icheskoy] Khim[ii] (USSR) 1959, v. 33, no. 5, p. 1100-1110.

Transformations of the form of the solutions of the basic differential kinetic equations of chain reactions for the case of two active species led to expressions that directly show how the kinetic development of chain reactions is affected by the magnitudes of the generalized rate constants of the initial kinetic (Chemistry--Physical, TT, v. 5, no. 12) (over)

61-15732

1. Chemical reactions--Mathematical analysis
2. Title: Chain reactions
I. Vasil'yev, S. S.
II. RTS-1739
III. Department of Scientific and Industrial Research (Gt. Brit.)
IV. Title: Rearrangement ...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Heat of Adsorption in the Electronic Chemical Sorption Theory, by Sh. M. Kogan, V. B. Sandomirskiy, 8 pp.

RUSSIAN, Zhur Fiz Khim, Vol XXXIII, 1959, pp 1129-1133.

AEC Tr-4299

Sci - Phys, Chem
21 Feb 61

140,948

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Fedoseeva, O. P. and Tunitskii, N. N.
STUDY OF THE KINETICS OF ION EXCHANGE SORPTION. III. COMPLETE EXCHANGE BETWEEN MONOVALENT AND DIVALENT ION IN RESINS.
[1961] [9]p. 4 refs.
Order from OTS or SLA $1.10 62-10307

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1959, v. 33, [no. 5] p. 1140-1146.

DESCRIPTORS: *Ion exchange resins, Resins, Hydrogen, Sodium, Calcium, Strontium, Ions, Exchange reactions, Reaction kinetics, Diffusion, Adsorption.

The effect was studied of the cationic form of the resin on the diffusion coefficients of ionic microcomponents. It is shown that monovalent as well as divalent ions diffuse faster in a resin containing monovalent ions than in a resin containing divalent ions. Swelling of
(Chemistry-Physical, TT, v. 7, no. 10) (over)

62-10307

I. Fedoseeva, O. P.
II. Tunitskii, N. N.
III. Title: Complete ...

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

19 (DC-3592).

Boris Vasil'yevich Yerofeyev (On his 50th Birthday), by S. V. Markevich, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 5, 1959, pp 1155, 1156.

JPRS 3368

USSR
Biog
Jun 60

117,577

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Study of the Oxidation of Cyclohexane by the Method of Inhibition During the Reaction, by E. T. Denisov, 13pp.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 33, 1959, No 6, pp 1198-1208.
CFSTI TT-64-18412

323,208

Sci - Chemistry
Apr 67

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Presentation of the Equation of State of Real Gas in Explicit Form in Terms of the Independent Variables T and v, by V. A. Zagoruchenko, P. M. Kessel'man, 8 pp.
RUSSIAN, per, Zhurnal Fizicheskoy Khimiy, Vol 33, No 6, 1959, pp 1221-1229.
NTIS TT 69-55051

Sci/Chem
Dec 70

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Investigation of the Surface State of Nickel and Iron Cathodes From the Drop in Potential After Disconnecting the Current, by
V. E. Past, Z. A. Iofa.
RUSSIAN, per, Zhurnal Fizicheskoy Khimii,
Vol 33, No 6, 1959, pp 1230-1237.
NASA TT F-11,770

Sci
Dec 63

371,123

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

A Study of the Wetting of Solid Surfaces of Refractory Oxides by Liquid Metals, by V. N. Yeremenko, Yu. V. Naydich.
RUSSIAN, per, Zhurnal Fiz Khimii, Vol 33, No 6, 1959, pp 1233-1245.
CIA X-6779

Oct 68 369,408

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Investigation of the Influence of the Structure of Unsaturated Compounds on Their Reactivity in Copolymerization Processes. Part 2. The Effect of Different Substitutents Attached to the Nitrogen on the Reactivity of Methacrylamide Derivatives With Respect to a Common Type of Radical, by G. A. Petrova, G. A. Shtraykhman, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, , Vol XXXIII, No 6, 1959, pp 1246-1252.

195,969

AFB-2 [illegible]
AFB/RJ-2 [illegible]

Sci
Vol 4, No 10, May 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Effect of Ionizing Radiation of the Corrosion of Metals Under Atmospheric Conditions, 11 PP.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 6, 1959, pp 1256-1262.

ACSI, H-4619

Sci - Chem

Nov 59

TIS/II-a T-2171

100,509

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Zosimovich, O. P. and Bogatova, N. F.
ELECTRO DEPOSITION OF ZINC IN THE PRESENCE OF SMALL QUANTITIES OF ANTIMONY AND COBALT (Elektroliticheskoye Vydeleniye Tsinka v Prisutstvii Malykh Kolichestv Sur'my i Kobal'ta).
Nov 60 [8]p. 10 refs. RTS 1692.
Order from LC or SLA mi$1.80, ph$1.80 61-15219

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959, v. 33, no. 6, p. 1324-1327.

It is established that in the presence of small quantities of antimony (0.05 mg/l) and cobalt (20 mg/l) during the electrolytic deposition of zinc an increase in polarisation is observed. When cobalt is present in solutions containing 0.2 mg/l of antimony, the process is determined by the presence of antimony. Antimony, introduced into the electrolyte either as potassium antimonyl tartrate (tartar emetic) or as antimony sulphate, has the same influence on the course of the polarisation curves. It is suggested that small
(Chemistry--Physical, TT, v. 5, no. 7) (over)

61-15219

I. Zinc--Electrodeposition
I. Zosimovich, O. P.
II. Bogatova, N. F.
III. RTS-1692
IV. Department of Scientific and Industrial Research (Gt. Brit.)

148,730

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Phase Equilibria in the System Melamine-Ammonia,
by I. P. Krichevskiy, G. D. Efremova,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 6,
1959, pp 1328-1335.

ATS RJ-2040

Sci - Chem
Dec 59

103,774

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

A Method for Calculating Vapor-Liquid Equilibria of Tricomponent Systems, by V. B. Kogan, V. M. Safronov, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 6, 1959, pp 1353-1359.

SLA 60-17729

Sci

129,401

OTS, Vol IV, No 3

Sep 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Shilov, A. Ye. and Sabirova, R. D.
MECHANISM OF THE PRIMARY ACT OF DECOMPOSITION OF CHLORINE DERIVATIVES OF METHANE. I. DECOMPOSITION OF CARBON TETRACHLORIDE AND METHYL CHLORIDE (Mekhanism Pervichnogo Akta Termicheskogo Raspada Khlorproizvodnykh Metana). Nov (0 [17]p. 19 refs. RTS 1527.
Order from LC or SLA m$2.40, ph$3.30 61-13488

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959 [v. 33] no. 6, p. 1365-1373.

The kinetics of the thermal decomposition of carbon tetrachloride and methyl chloride in jets was investigated. The primary decomposition in both cases takes place with the disruption of a chlorine atom. A mechanism for the secondary reaction is suggested, which agrees with the products of reaction and the kinetic data. (Author)

(Chemistry--Physical, TT, v. 5, no. 4)

61-13488

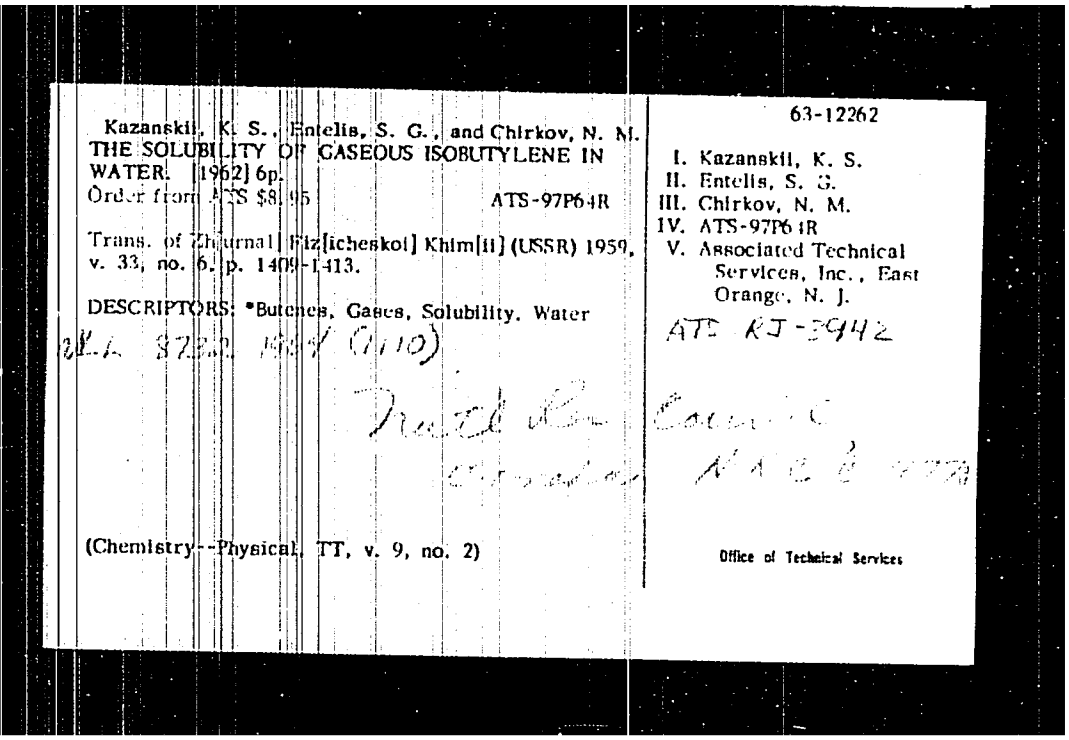
I. Chlorides--Decomposition
I. Shilov, A. Ye.
II. Sabirova, R. D.
III. Title: Decomposition...
IV. RTS-1527
V. Department of Scientific and Industrial Research (Gt. Brit.)

143,240

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Kazanskii, K. S., Entelis, S. G., and Chirkov, N. M. THE SOLUBILITY OF GASEOUS ISOBUTYLENE IN WATER. [1962] 6p.
Order from ATS $8.95 ATS-97P64R

Trans. of Zhurnal Fiz[icheskoi] Khim[ii] (USSR) 1959, v. 33, no. 6, p. 1409-1413.

DESCRIPTORS: *Butenes, Gases, Solubility, Water

(Chemistry--Physical, TT, v. 9, no. 2)

63-12262

I. Kazanskii, K. S.
II. Entelis, S. G.
III. Chirkov, N. M.
IV. ATS-97P64R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3942

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Absorption Properties of Cellulose in the Process of Its Thermal Decomposition, by T. V. Gatovskaya. RUSSIAN, per, Zhur Fiz Khim., Vol 33, No 6, 1959, pp 1418-1421.
*NTIS TT 71-51001

July 71

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Marinin, V.A.
VARIATION THERMIQUE DU COEFFICIENT DE DIFFUSION DE CERTAINES SUBSTANCES DANS LE TÉTRACHLORÉTHANE ET LE TÉTRABROMÉTHANE
(Temperature Relation of the Diffusion Coefficient of Substances in Tetrachloro - and Tetrabromoethane).
5p. 5refs. CNRS-VIII bis 690
Order from OTS, ETC or CNRS $0.80 TT-62-26386

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1958, v.33, no.6, p.1430-1433.

DESCRIPTORS: Bromine compounds, Chlorine compounds, Hydrogen compounds, Carbon compounds, *Diffusion, Heat, *Ethanes.

(Chemistry--Physical, TT, v. 11, no. 7)

DB

TT-62-26386

I. Marinin, V.A.
II. CNRS-VIII bis 690
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Thermodynamics of the Superstate, by V. K. Semanchenko, 6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, 1959, pp 1440-1445.

AEC Tr-4271

Sci - Phys
9 Mar 61

141,572

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Applying Thermodynamics of Irreversible Processes to the Phase Theory. The Case of the Two Component Two-Phase System at Constant Temperature and Pressure, by Kiril A. Popov.
RUSSIAN, per, Zh. Fiz Khim, Vol 32, 1958, pp 1638-47.
WAPD-tr-57

Sci - Chem
Oct 67

342,701

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Ion Hydration and Its Mechanism. The Structure and Dimensions of Hydrated Ions, by A. F. Kapustinskiy, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, 1958, Vol XXXII, No 7, pp 1648-1657.

SLA 60-17725

Sci

3 Mar 62

186, 171

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Andreeva, V. V. and Shishakov, N. A.
DE L'ÉPAISSEUR DES PELLICULES D'OXYDES SUR CERTAINES MÉTAUX SELON LES DONNÉES DES ÉTUDES ELECTRONOGRAPHIQUES ET OPTIQUES
[On the Thickness of Oxide Films on Some Metals from the Data of Electron Diffraction and Optical Investigations] tr. by de Trezvinsky. 22 Mar 60 [8]p. 5 refs.
CEA Trans. no. R 855 (text in French).
Order from OTS or SLA $1.10 61-23816

Trans. in French of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1958, v. 32, no. 7, p. 1671-1672.
A translation in English is available from LC or SLA mi$1.80, ph$1.80 as AEC-tr-3955, Jan 60, 5p.

DESCRIPTORS: *Metals, *Oxidation, *Thin films, *Oxides, Electron diffraction analysis, Optical analysis, Thickness.

For abstract see Technical Translations 3: 776, 1960. (Chemistry--Physical, TT, v. 6, no. 6)

61-23816

I. Andreeva, V. V.
II. Shishakov, N. A.
III. CEA-tr-R855
IV. Commissariat à l'Énergie Atomique (France)

176696

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Picatinny Arsenal
Req. 154-71

R--13363-D
28 June 1971

Zhur. Fiz. Khim. Vol. 32, pp. 1690-1691. (1958).
(Russian Journal of Physical Chemistry)

Medvedev, V. A.

Language: Russian

Please translate & type 1 copy only.

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Method of Calculating the Thermodynamic Properties of Some Compounds Without Knowledge of Their Vibration Spectra, by Yu. P. Maslov, P. G. Maslov. UNCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 1735-1736.

DSIR LLU M.1285

111/137

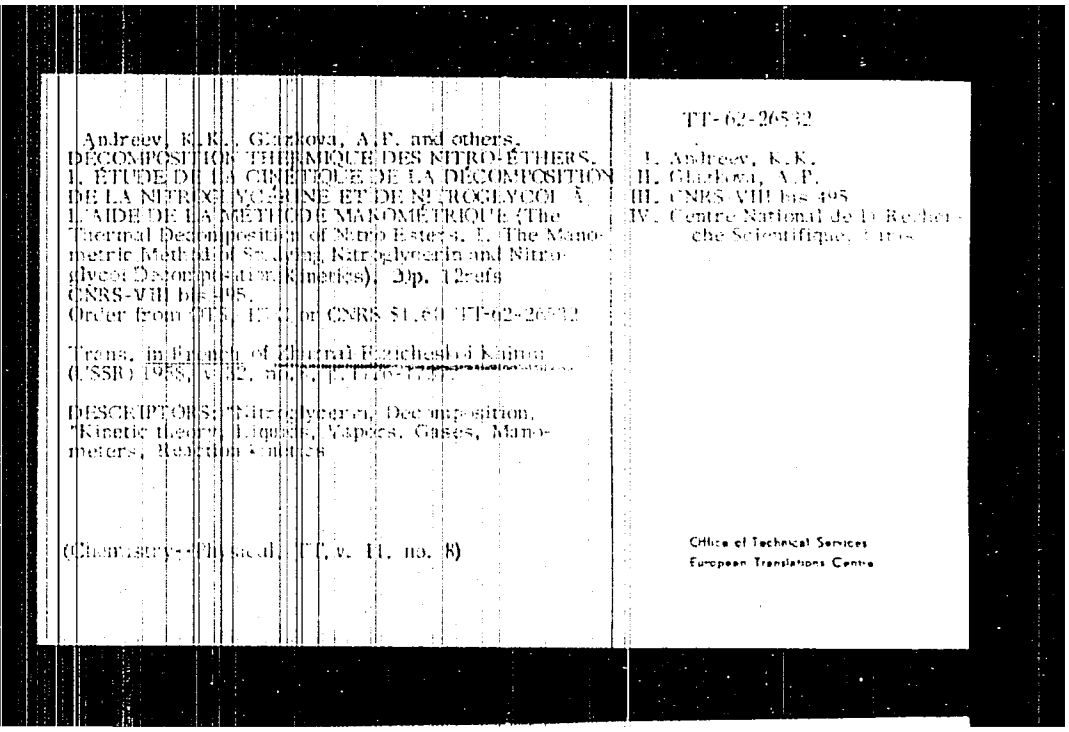
(1ann)

Sol - Phys; Chem

Mar (X)

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Andreev, K.K., Glazkova, A.P. and others.
DÉCOMPOSITION THERMIQUE DES NITRO-ÉTHERS. I. ÉTUDE DE LA CINÉTIQUE DE LA DÉCOMPOSITION DE LA NITROGLYCOLINE ET DE NITROGLYCOL À L'AIDE DE LA MÉTHODE MANOMÉTRIQUE (The Thermal Decomposition of Nitro Esters. I. The Manometric Method of Studying Nitroglycerin and Nitroglycol Decomposition Kinetics). 30p. 12refs
CNRS-VIII bis 495.
Order from OTS, TT-2 or CNRS $1.65 TT-62-26532

Trans. in English of Zhurnal Fizicheskoi Khimii (USSR) 1958, v. 32, no. 8, p. 1776-1782.

DESCRIPTORS: Nitroglycerin, Decomposition, *Kinetic theory, Liquids, Vapors, Gases, Manometers, Reaction kinetics

(Chemistry--Physical, TT, v. II, no. 8)

TT-62-26532

I. Andreev, K.K.
II. Glazkova, A.P.
III. CNRS VIII bis 495
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Approximation Computation of the Temperature Function of Heat Capacity, by M. Kh. Karapet'-yants, 14 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXXII, No 8, 1958, pp 1763-1773.

OTS 60-17719

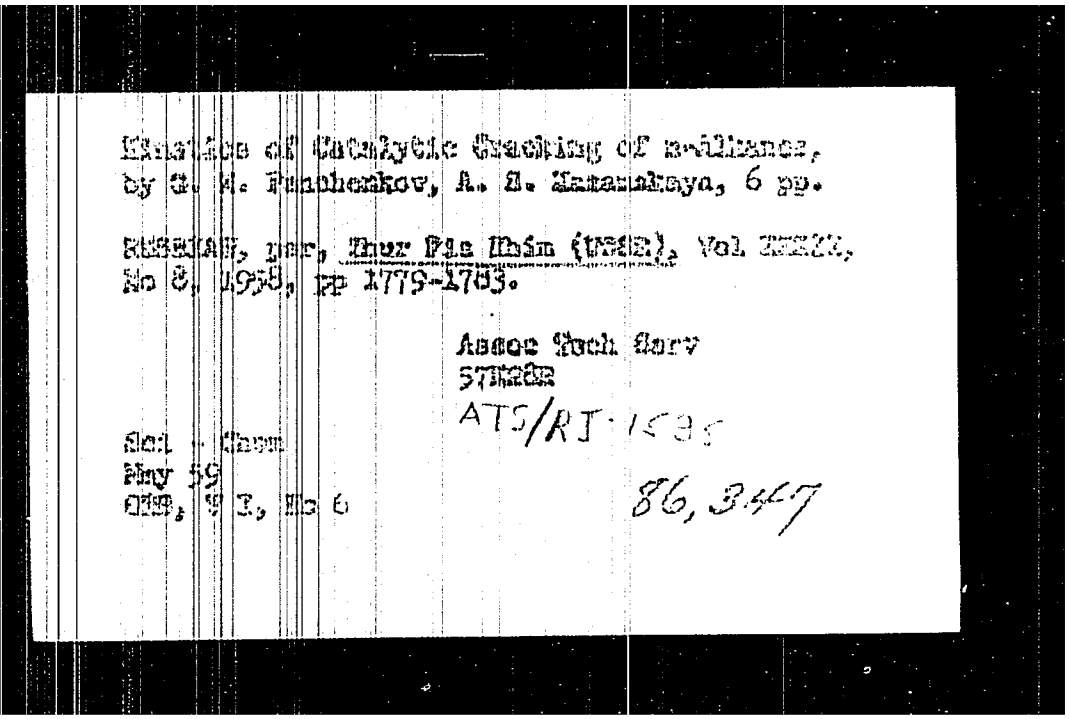
Sci

188,910

30 Mar 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Kinetics of Catalytic Cracking of Naphthenes,
by G. K. Boreskov, A. A. Matveyeva, 6 pp.

RUSSIAN, per, Zhur Fiz Khim (ZFKHA), Vol XXXII,
No 8, 1958, pp 1779-1783.

Aerod Tech Serv
STRACR
ATS/RJ-1589

Sci & Chem
May 59
CIA, 9 T, No 6

86,347

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Mechanism of the Cathode Process in the Electrolysis of a Fused NaCl-$CaCl_2$ Mixture on an Iron Cathode, by L. Suskii, 22 19 pp.

RUSSIAN , per, Zhur Fiz Khim, Vol XXXII, 1958, pp 1785-1795.

AEC Tr 3658

Sci - Phys

Jun 59

88,899

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Catalytic Properties of Cerium Dioxide in the Dehydrogenation and Dehydration of Alcohols and in the Dehydrogenation of Cyclohexane, by A. A. Kolotopyatova, A. A. Balandin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 8, 1958, pp 1831-1841.

ATS RJ-1903

Sci - Chem
Dec 59

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

TT-62-28263

Antonovskaya, E.I. and Sukhotin, A.M.

SUR LES PARTICULARITES DE L'ACTIVATION ANODIQUE DU CHROME ET DES ACIERS AU CHROME. II (Ob Osobennostyakh Anodnogo Aktivirovaniya Khroma i Khromistykh Stalei. II) (Peculiarities of the Anodic Activation of Chromium and Chromium Steels. II) 14p. (foreign text included) Trans. CNRS-VIII bis 584. Order from OTS, ETS or CNRS 80.80 TT-62-28263

Trans. in English of Zhurnal Fizicheskoi Khimii (USSR) 1958, v. 32, no. 5, pp. 1042-1048.
Trans. in English available from ATS 58-60 as ATS-63M5-III.

DESCRIPTORS: Chromium, Chromium alloys, Iron alloys, Steel, Anodes, Activation, Hydrogen, pH.

(Metallurgy--Ferrous Metals, TT, v. 11, no. 8)

1. Antonovskaya, E.I.
II. Sukhotin, A.M.
III. CNRS-VIII bis 584
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

S-322/60 (NY-3919)

Studies of Thermodynamic Properties of Substances With the Aid of the Method of Explosion in a Spherical Bomb, by V. A. Medvedev, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 8, 1958, pp 1851-1859.

JPRS 2842

Sci - Chem

Jul 60

120,061

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Enthalpy of Corundum in the Temperature Range From 100 to 900° C, by K. Z. Gomelskiy, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 8, 1958, pp 1859-1862.

Dept of Commerce
Natl Bur of Standards
Dr Henry Birnbaum

USSR
Sci - Chemistry
Jun 59

89,476

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Study of Initiation and Propagation of Spherical Detonation, by V. B. [illegible] Lecnes.

RUSSIAN, pamp, Zhur Fiz Khim, Vol XXXII, No 8, 1958, pp 1868-1872. 907349

Navy 2012/2-59

Sci - Physics
Feb 59

81,165

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Leont'ev, E. A. and Luk'yanovich, V. M.
TECHNIQUE DE PREPARATION DES CORPS POREUX ET PULVERULENTS POUR L'ETUDE AU MICROSCOPE ELECRONIQUE PAR LA METHODE DES REPLIQUES [Tekhnika Preparirovaniya pri Provedenii Elektronno-Mikroskopicheskikh Issledovanii Poristykh i Poroshkoobraznykh tel Metodom Replik] (Technique for Preparation of Porous Bodies and Powders for Electron Microscopic Study by the Replica Method) tr. by Bouchicot. 21 Jan 60 14]p. 8 refs. CEA Trans. no. R 812 (ex[in Frenc]).
Order from OTS or SLA $1.60 61-23784

Trans. in Frenc[of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR)1958, v. 32, no. 8, p. 1922-1925

DESCRIPTORS: *Porous materials, *Powders, Electron

(Physics--Optics, TT, v. 6, no. 7)

61-23784

I. Title: Replicas
I. Leont'ev, E. A.
II. Luk'yanovich, V. M.
III. CEA-tr-R812
IV. Commissariat à l'Energie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Fedotov, N.A.
PROPRIÉTÉS DES ÉLECTRODES DE VERRE AU LITHIUM (Elektrodnye Svoistva Litievogo Stekla) (The Electrode Properties of Lithium Glass). 19p. (foreign text included) Refs. CNRS-VIII bis 487.
Order from OTS, BTC or CNRS $0.80 TT-62-28257

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1958, v. 32, no. 9, p. 1951-1957.

DESCRIPTORS: *Glass electrodes, *Lithium, Chemical properties, High temperature research, Measurement.

(Chemistry--Physical, TT, v. 11, no. 8)

TT-62-28257

I. Fedotov, N.A.
II. CNRS-VIII bis 487
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Investigation of Hydrogen Over-Voltage on Germanium, by Ye. A. Yefimov, I. G. Yermolinchik.
9 pp.

RUSSIAN, per, Zhur Fiz Khim USSR, Vol XXXII, No 9, 1958, pp 1967-1970.

SLA 59-15004

Sci
Dec 59
Vol 2, No 4

103085

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Bogoyavlenskii, P. S.
THE EFFECT OF LARGE MONOVALENT IONS ON THE STRUCTURE OF WATER AND ITS INFLUENCE ON THE SOLUBILITY OF SALTS. [1962] 8p.
Order from ATS $13.50 ATS-00P65R

Trans. of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1958, v. 32, no. 9, p. 2035-2041.

DESCRIPTORS: *Water, Molecular structure, Ions, *Salts, Solubility.

(Chemistry--Physical, TT, v. 9, no. 5)

63-12474

I. Bogoyavlenskii, P. S.
II. ATS-00P65R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS RT-[illegible]

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

On the Passivity of Iron in Hot Concentrated Alkaline Solutions, by A. M. Sukhotin, K. M. Kortashova; UNCLASSIFIED (7 pp.)

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 9, 1958, pp 2068-2072.

Navy 2365/NRL 757

Sci - Physics
Nov 59

CIA/FDD X-3756

101/413

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Phase and Volume Correlations in Liquid-Gas Systems Under High Pressures. VI.. System Cyclohexane-Hydrogen, by I. P. Krichevskiy, F. T. Sorina, 11 pp.

RUSSIAN, pub., Zhur Fiz Khim, Vol XXXII, No 9, 1958, pp 2080-2086.

SLA 60-14057

Sci
Vol IV, No 5
Mar62

188, 446

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Verigin, N. N.
DIFFUSION À LA SURFACE D'UN CORPS SOLIDE PLONGÉ DANS UN LIQUIDE [Diffuziya u Poverkhnosti Tverdogo Tela, Nakhodyashchegosya v Zhidkosti] [Diffusion at the Surface of a Solid Body Immersed in a Liquid] tr. by M. Grekow. 22 June 60 [22]p. 10 refs. CEA Trans. no. 3 984 (text in French).
Order from OTS or SLA $2.60 61-15803

Trans. in French of Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 9, p. 2097-2106.

DESCRIPTORS: *Diffusion, Solids, *Corrosion, Concrete, Rock, Liquids.

(Chemistry--Physical, TT, v. 6, no. 2)

61-15803

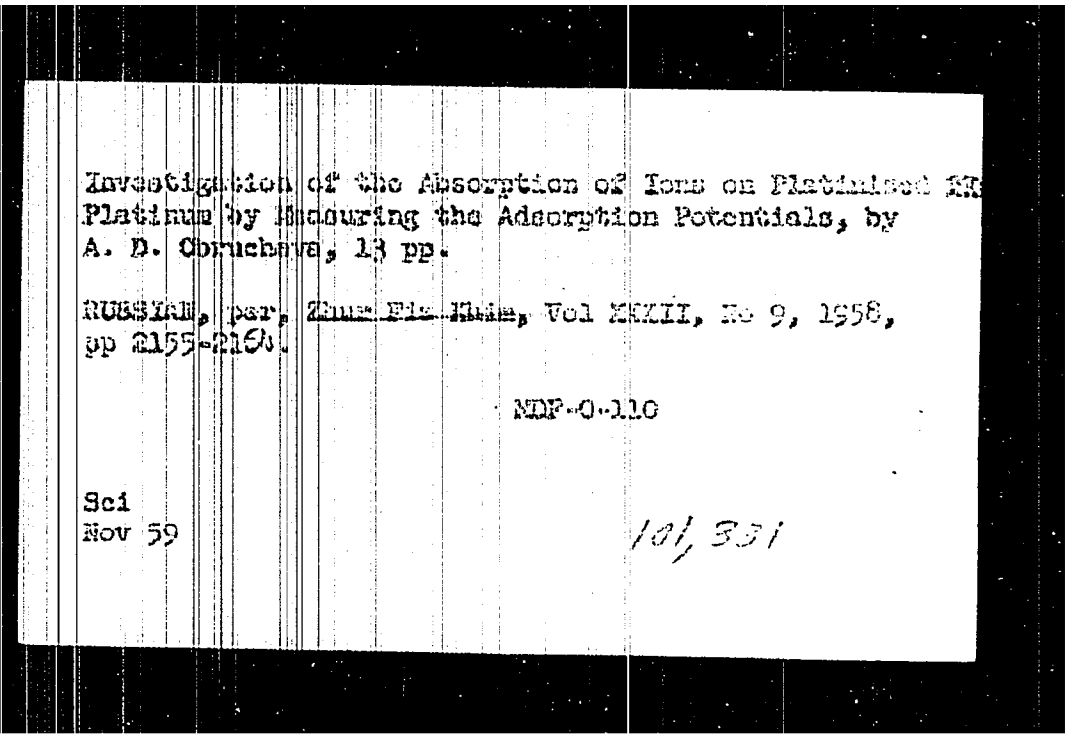
I. Verigin, N. N.
II. CEA-tr-R984
III. Commissariat à l'Énergie Atomnique (France)

10970

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Investigation of the Absorption of Ions on Platinized Pt
Platinum by Measuring the Adsorption Potentials, by
A. D. Obrucheva, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 9, 1958,
pp 2155-2160.

NDP-0-110

Sci
Nov 59

101, 331

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Effect of Ionizing Radiation on Aqueous Solutions of Potassium Nitrate, by A. M. Kabalkchi, V. A. Gramolin, 11 pp. RUSSIAN, per, Zhurnal fizicheskoiy khimiy, Vol 32, 1958, No. 9, pp 2149-2154.
AEC-RFP-TRANS P91263468-V

Sci/Chem
Oct 63

369,446

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Dissolution Anodique des Metaux Dans les Sels Fondus, II. Beryllium. (Anodic Dissolution of Metals in Fused Salts. II. Beryllium), by M. V. Smirnov, N. Ya. Tuchukreyev, 21 pp.

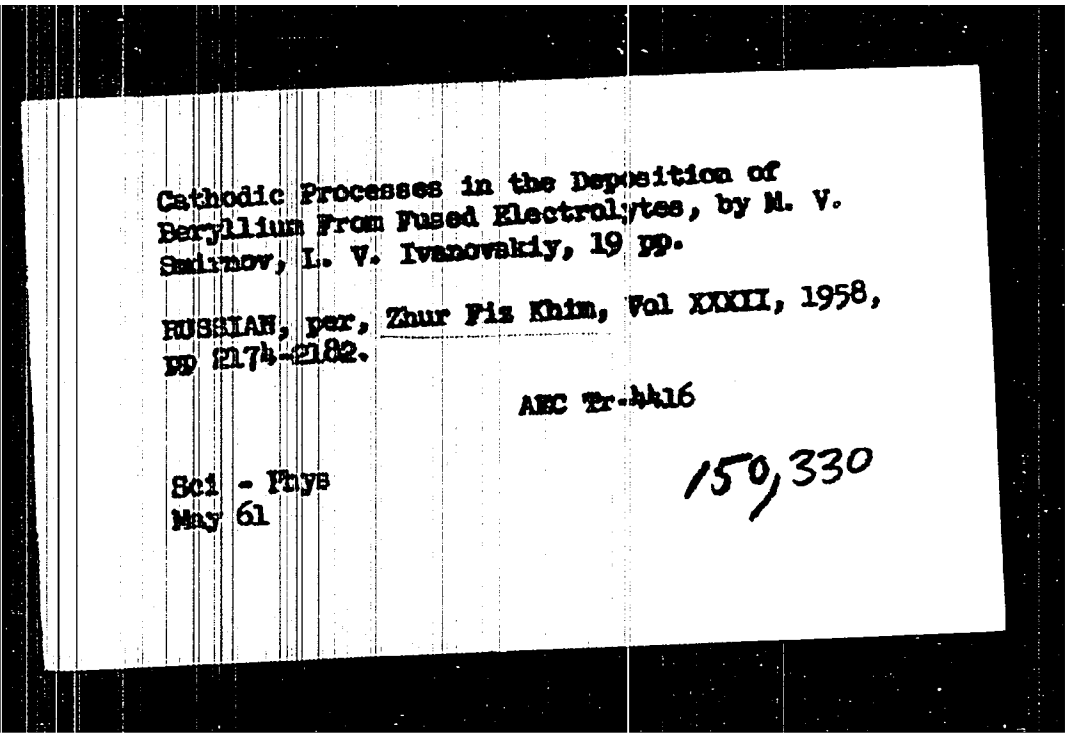
RUSSIAN to FRENCH, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 2165-2173.

Reverse Trans
CEA tr R-653

Nov 59

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Cathodic Processes in the Deposition of Beryllium From Fused Electrolytes, by M. V. Smirnov, L. V. Ivanovskiy, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 2174-2182.

AEC Tr-4416

Sci - Phys
May 61

150,330

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Phenomenes Accompagnant le Depot Electrolytique du Beryllium a Partir des Sels Fondus. (Phenomena Accompanying the Electrolytic Deposition of Beryllium From Fused Salts), by M. V. Smirnov, L. E. Ivanovskiy, 18 pp.

RUSSIAN to FRENCH, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 2174-2182.

Reverse Trans
CEA tr R-561

Nov 59

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Determination of the Specific Surface Areas of Porous Bodies and of Powders by the Method of Gaseous Flow Under Low Pressure, by S. G. Entelis,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 9, 1958, pp 2187-2191.

ATS RJ-2167

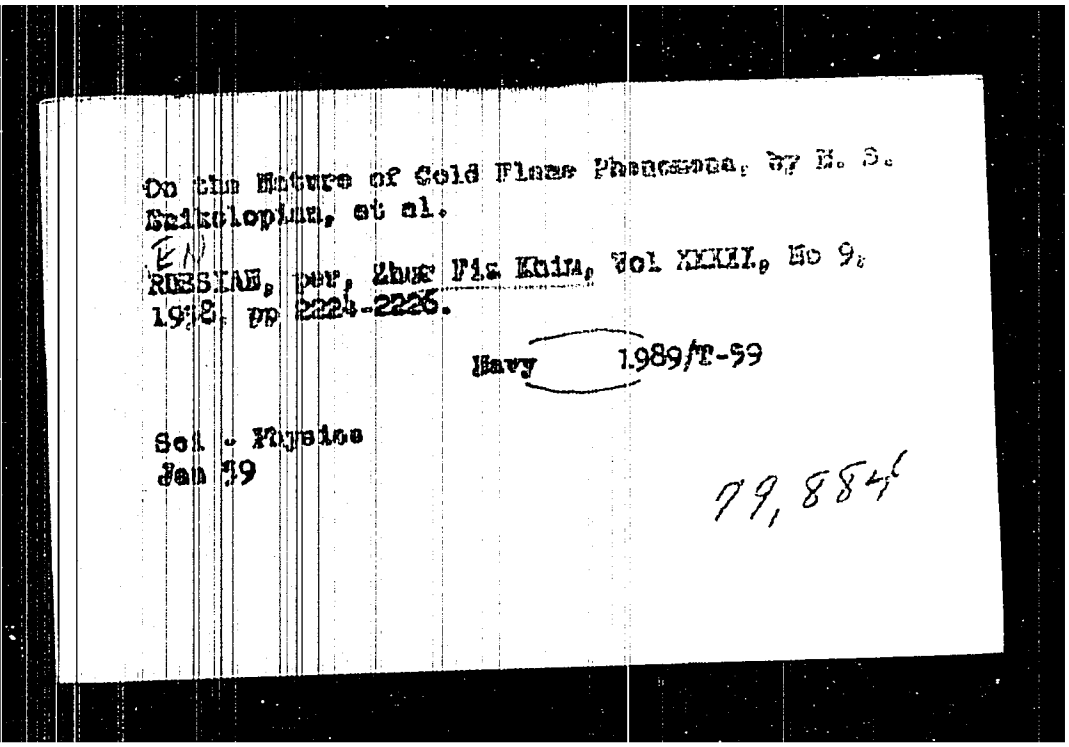
Sci - Chem

May 60

115 445

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



On the Nature of Cold Flame Phenomena, by B. S. Sokolopium, et al.

(E)
RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 9, 1958, pp 2224-2226.

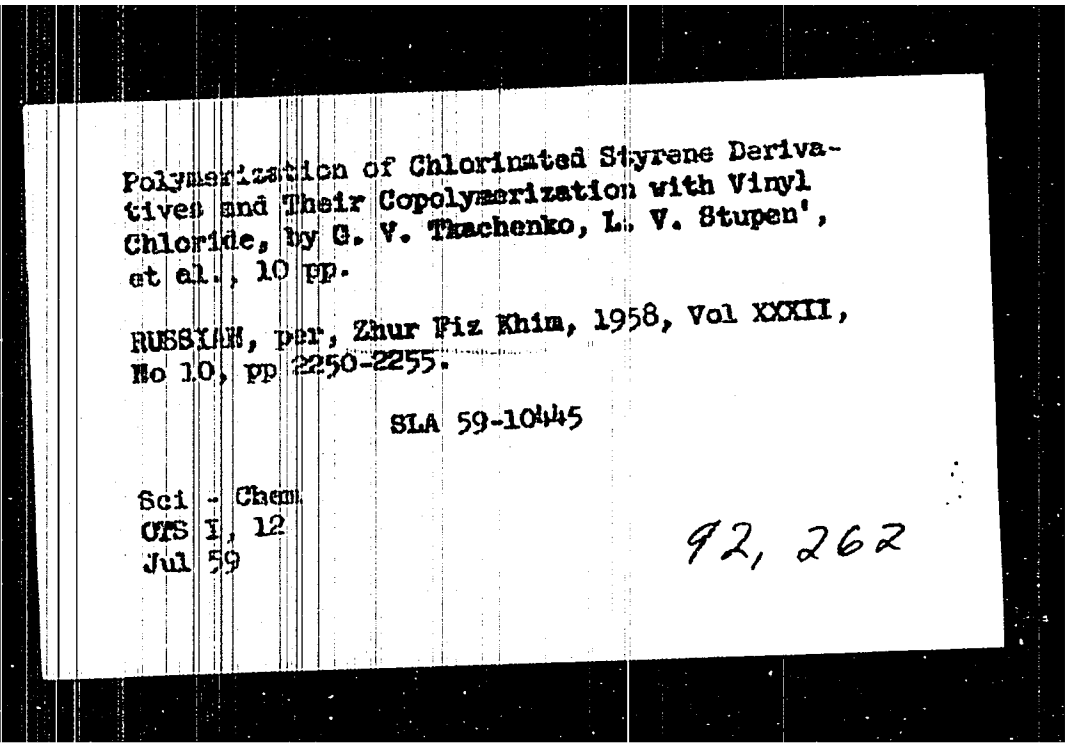
Navy 1.989/T-59

Sol. Physics
Jan 59

79,884

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Polymerization of Chlorinated Styrene Derivatives and Their Copolymerization with Vinyl Chloride, by G. V. Tkachenko, L. V. Stupen', et al., 10 pp.

RUSSIAN, per, Zhur Fiz Khim, 1958, Vol XXXII, No 10, pp 2250-2255.

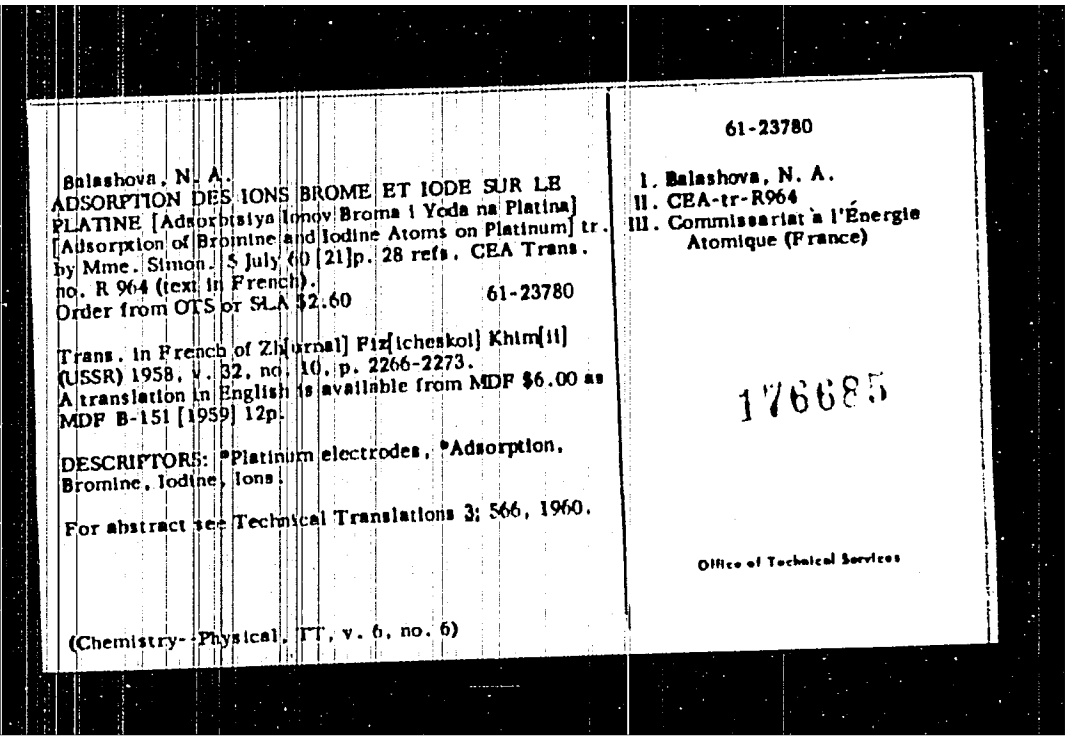
SLA 59-10445

Sci - Chem.
OTS I, 12
Jul 59

92, 262

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Balashova, N. A.
ADSORPTION DES IONS BROME ET IODE SUR LE PLATINE [Adsorbtsiya Ionov Broma i Yoda na Platina] [Adsorption of Bromine and Iodine Atoms on Platinum] tr. by Mme. Simon. 5 July 60 [21]p. 28 refs. CEA Trans. no. R 964 (text in French).
Order from OTS or SLA $2.60 61-23780

Trans. in French of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1958, v. 32, no. 10, p. 2266-2273.
A translation in English is available from MDF $6.00 as MDF B-151 [1959] 12p.

DESCRIPTORS: *Platinum electrodes, *Adsorption, Bromine, Iodine, Ions.

For abstract see Technical Translations 3: 566, 1960.

(Chemistry--Physical, TT, v. 6, no. 6)

61-23780

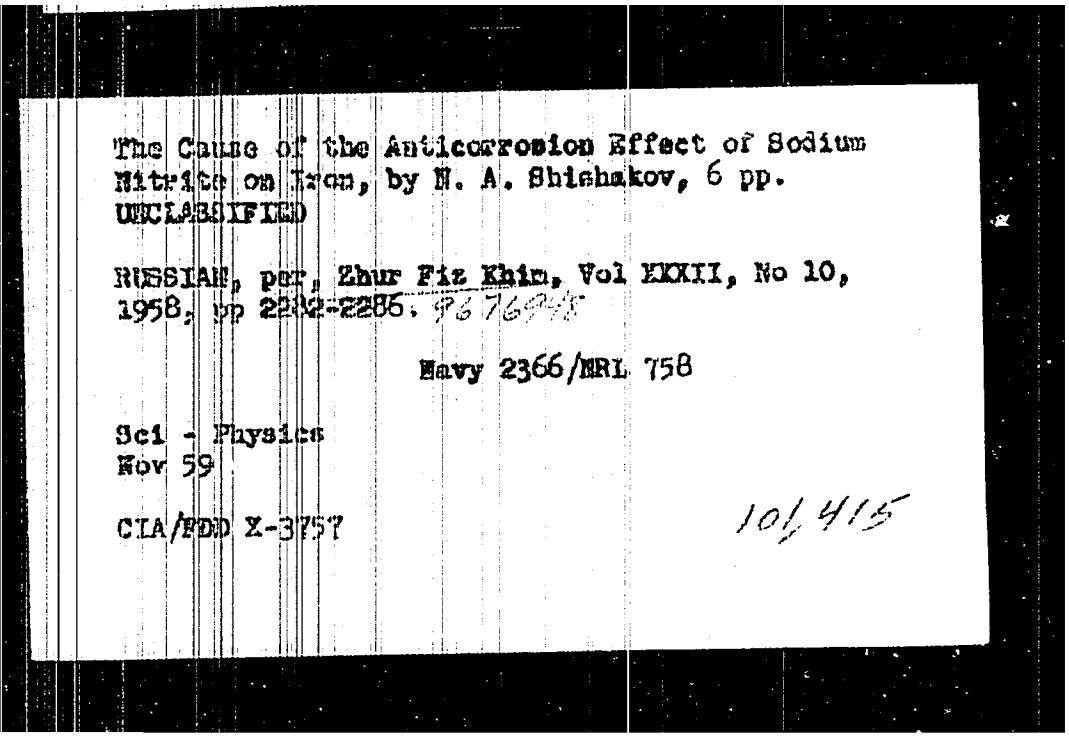
I. Balashova, N. A.
II. CEA-tr-R964
III. Commissariat à l'Énergie Atomique (France)

176685

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



The Cause of the Anticorrosion Effect of Sodium Nitrite on Iron, by N. A. Shishakov, 6 pp.
UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 10, 1958, pp 2282-2286. PB 76945

Navy 2366/NRL 758

Sci - Physics
Nov 59

CIA/FDD X-3757

101,415

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Separation of the Photochemical From the Light-Filtering Effect and Latent Photosensitization, by Yu. S. Zuev.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 10, 1958, pp 2308-2314.

ATS RJ-1724
SLA 62-18171

Sci - Chem
Jul 59

90,458

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Conversion of Methane to Acetylene in the High Voltage Arc, Part I, by E. N. Yeremin, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 10, 1958, p 2315

Navy 2232/T-147

Sci- Chem
Jul 59

92, 812

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Promoting Effect of Cobalt Iron on the Chromate Ion Catalysed Decomposition of Hydrogen Peroxide, by G. I. Petrova, G. A. Bogdanov.

RUSSIAN, per: Zhur Fiz Khim, Vol XXXII, No 10, 1958, pp 2328-2332.

MLL NTS 2259 (Lab)

Sci - M/M
Feb 64

248,283

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Kinetics and Mechanism of Catalytic Conversions of Acetylene, II, Some Questions of the Mechanism of the Addition of Various Molecules to Acetylene, by R. M. Flid, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 10, 1958, pp 2339-2346.

SIA 59-10444
ATS-RJ-1908

Sci - Chem
Sep 59
Vol 2, No 1

97,281

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Vagin, F. V. and Zhukhovitskii, A. A.
THEORY OF THERMAL-ADSORPTIVE SEPARATION.
26 June 61. 25p. 6 refs.
Order from OTS or SLA $2.60 63-10216

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1958, v. 32, no. 10, p. 2362-2373.

DESCRIPTORS: *Adsorption, Separation, Gases, Sorption, Chromatographic analysis, Thermal diffusion, Equations of state, Theory.

A theory of thermal-adsorptive separation of gases based on the assumption of pressure equality in the sorbent layer is presented. In the case of an infinitely great sorption rate and of absence of longitudinal diffusion in the process of thermal desorption, a distribution of the adsorbed substance corresponding to the temperature field is established, the motion velocities (Chemistry--Physical, TT, v. 10, no. 3) (over)

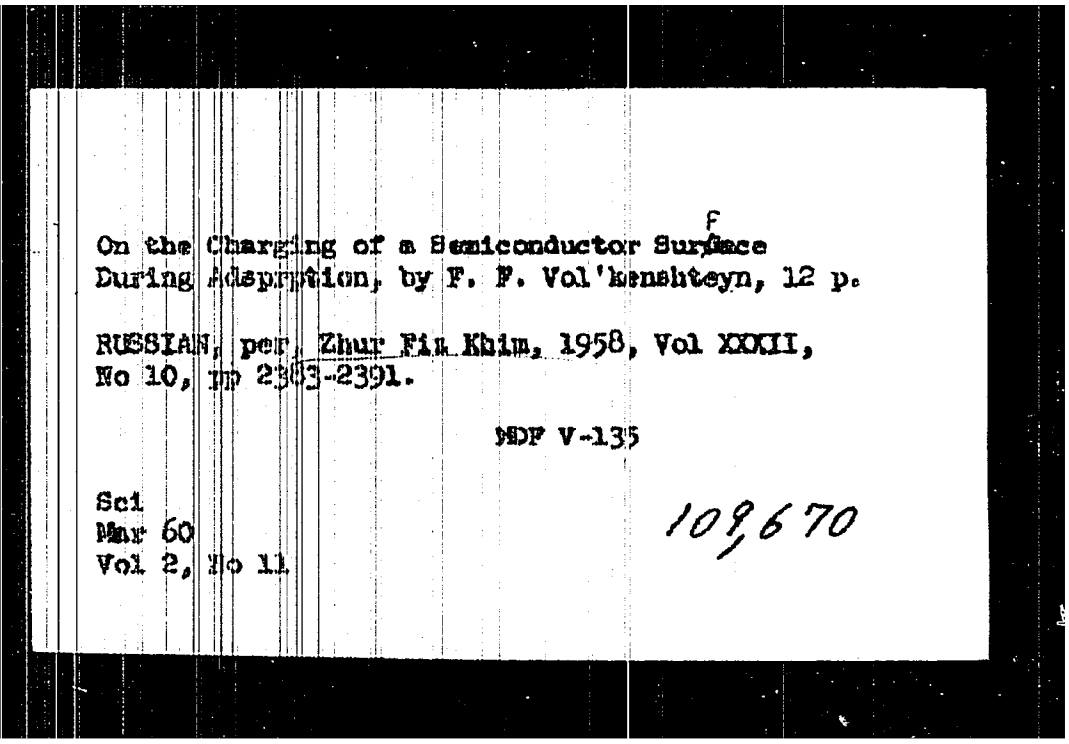
63-10216

I. Vagin, F. V.
II. Zhukhovitskii, A. A.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



On the Charging of a Semiconductor Surface
During Adsorption, by F. F. Vol'kenshteyn, 12 p.

RUSSIAN, per, Zhur Fiz Khim, 1958, Vol XXXII,
No 10, pp 2383-2391.

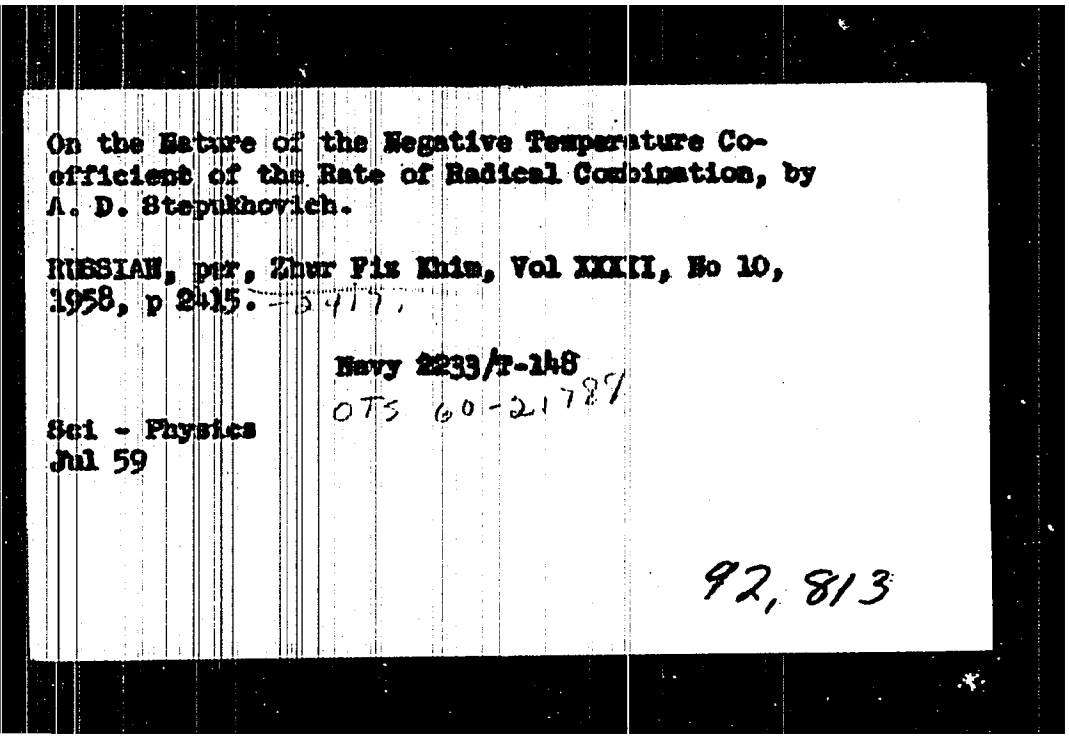
MDF V-135

Sci
Mar 60
Vol 2, No 11

109670

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



On the Nature of the Negative Temperature Coefficient of the Rate of Radical Combination, by A. D. Stepukhovich.

RUSSIAN, pvr, Zhur Fiz Khim, Vol XXXII, No 10, 1958, p 2415. 5417.

Navy 2233/T-148
OTS 60-21787

Sci - Physics
Jul 59

92, 813

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Radiation Oxidation of Nitrogen. III. Some Questions Concerning the Mechanism of the Reaction and a Comparison With Electrical Discharge Data, by M. T. Dmitryev.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 10, 1958, p 2418. -2423

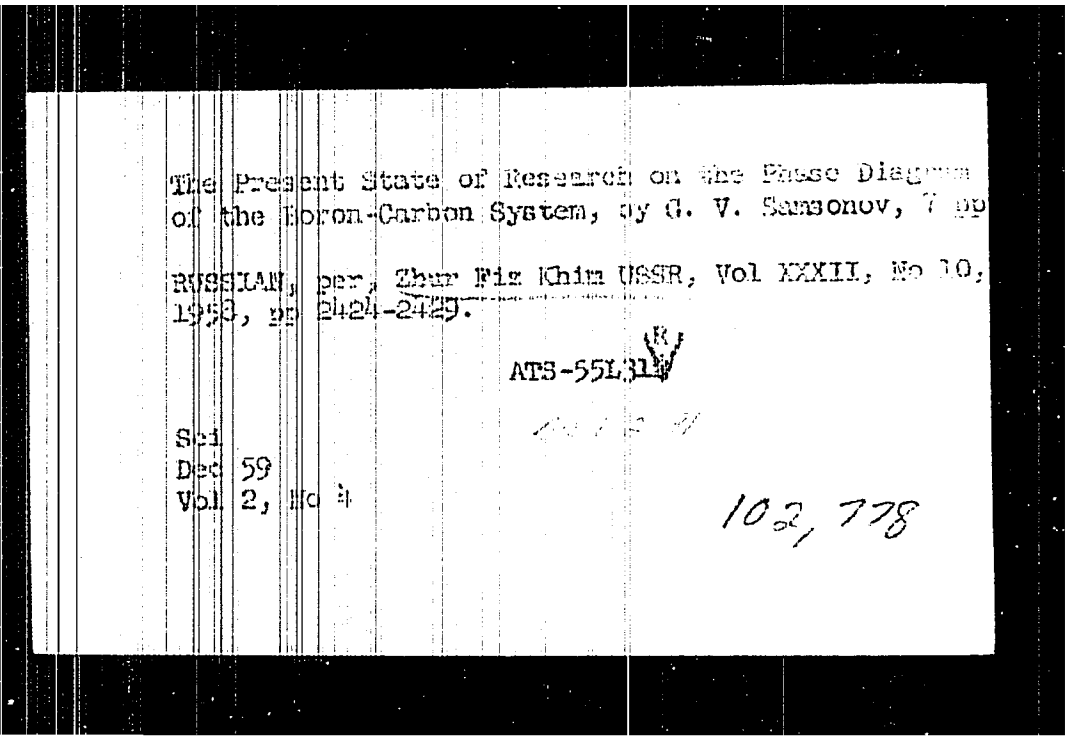
Navy 2234/T-149
OTS 60-21184

Sci - Physics
Jul 59

92,815

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



The Present State of Research on the Phase Diagram of the Boron-Carbon System, by G. V. Samsonov, 7 pp

RUSSIAN, per, Zhur Fiz Khim USSR, Vol XXXII, No 10, 1958, pp 2424-2429.

ATS-55L31

Sci
Dec 59
Vol 2, No 4

102,778

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

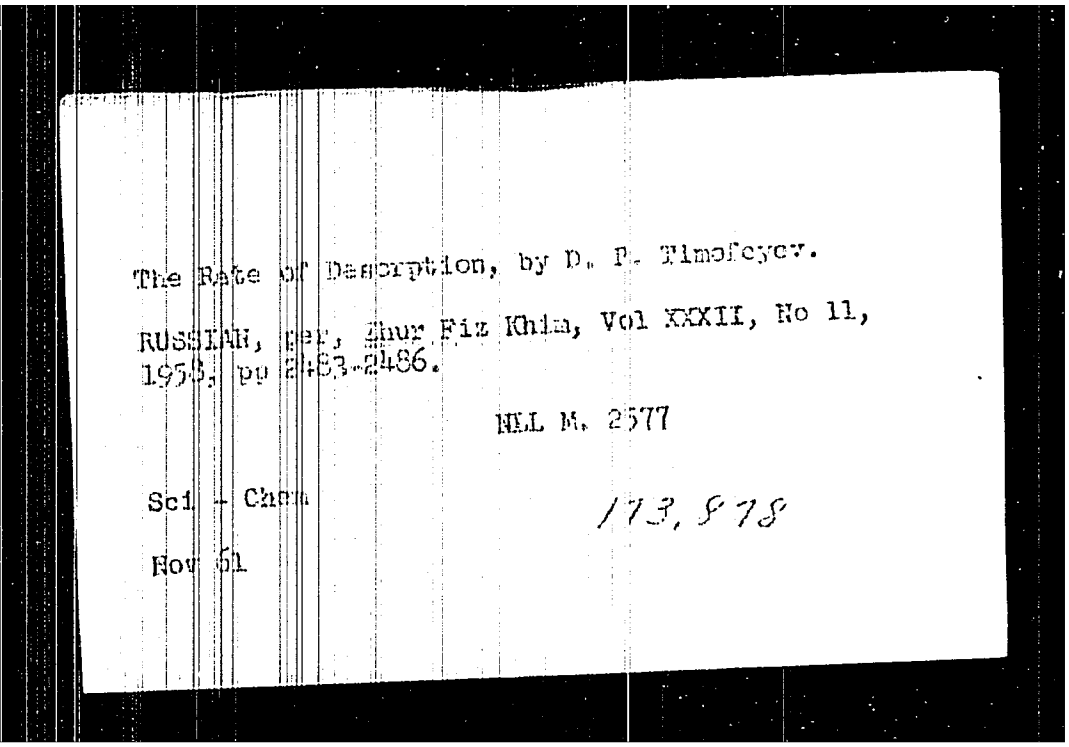
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Electrochemical Properties of Zirconyl Phosphate. Part 1. Electrode Properties of Membranes, by E. A. Materova. RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 38, 1964, pp 676-680. NTC 72-10454-07D

Apr 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



The Rate of Desorption, by D. P. Timofeyev.

RUSSIAN, Per, Zhur Fiz Khim, Vol XXXII, No 11, 1958, pp 2483-2486.

MLL M. 2577

Sci - Chem

Nov 61

173, 878

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Tkachenko, G. V., Stupen, L. V. and others.
THE COPOLYMERIZATION OF VINYL CHLORIDE WITH METHACRYLIC ACID ESTERS. [1961] [9]p. 10 refs.
Order from OTS or SLA $1.10 61-20705

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1958, v. 32, no. 11 [p. 2492-2499].

DESCRIPTORS: *Vinyl chlorides, Copolymerization, Polymerization, *Acrylic acids, Acids, Esters, Benzoates, Polymers, Molecular weight.

The copolymerization of vinyl chloride with methyl-, n-butyl-, n-octyl methacrylates and vinyl benzoate was studied. The rates of the copolymerization of vinyl chloride with methacrylates and the molecular weights of the polymers in all of the corresponding monomers are less than with acrylates. These values (Chemistry--Organic, TT, v. 7, no. 10) (over)

61-20705

I. Tkachenko, G. V.
II. Stupen, L. V.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Yeremin, Ye. N.
THE KINETICS OF ELECTROCRACKING OF METHANE [K Voprosu o Kinetike Elektrokrekinga Metana]. [1961] Tp.
Order from ATS $12.55 ATS-52N51R

Trans. of Zhur[nal] Fiz[icheskoy] Khim[ii] (USSR) 1958, v. 32, no. 11, p. 2543-2549.

DESCRIPTORS: *Methanes, Decomposition, Hydrocarbons, Reaction kinetics.

(Chemistry--Physical, TT, v. 6, no. 3)

61-22612
(63-12112)

I. Yeremin, Ye. N.
II. ATS-52N51R
III. Associated Technical Services, Inc., East Orange, N. J.

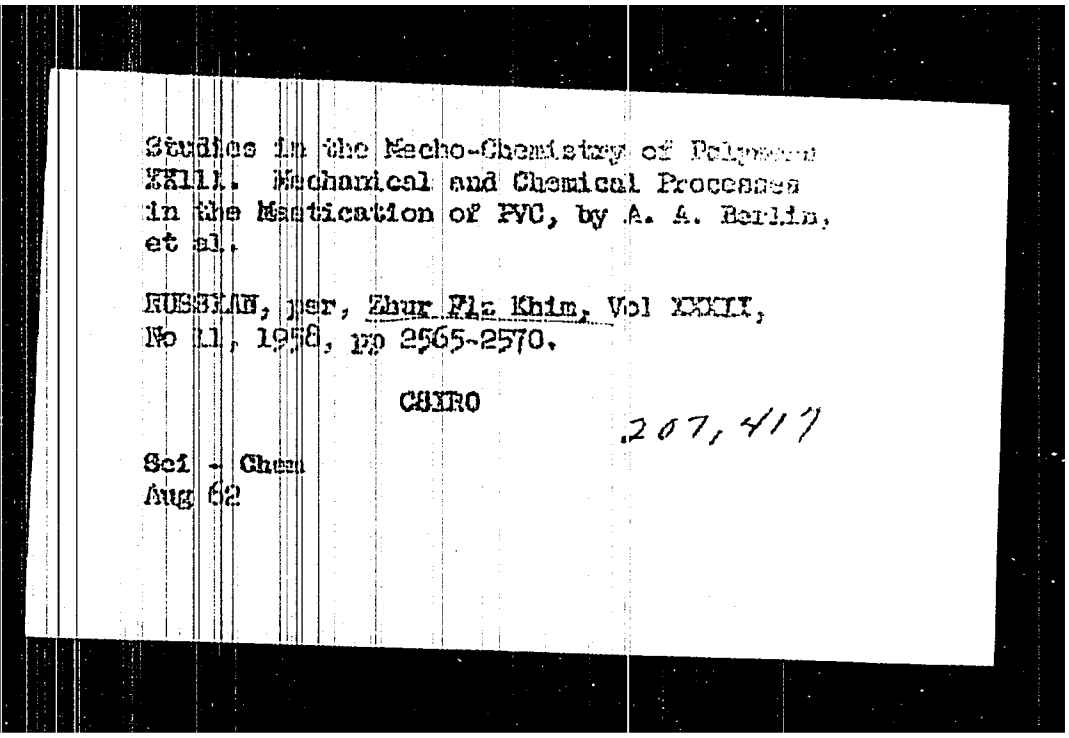
ATS-RJ-2892

170323

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Studies in the Mecho-Chemistry of Polymers
XXIII. Mechanical and Chemical Processes
in the Mastication of PVC, by A. A. Berlin,
et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII,
No 11, 1958, pp 2565-2570.

CHIRO

207,417

Sci - Chem
Aug 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Use of the Electric Arc in Calorimetry, by A. F. Vorob'yev, S. M. Skuratov, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 11, 1958, pp 2580-2585.

SLA 60-13082

Sci
Aug 61

OTS, Vol III, No 12

163,132

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

S-85/60 (NY-3554)

On the Computation of a Single Coefficient of the Separation of Isotopes for Equilibrium Processes, by Ye. M. Kuznetsova, A. V. Makarov, G. M. Panchenkov, 3 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 11, 1958, pp 2641-2643.

JPRS 2476

114,730

Sci - Chem
Apr 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

1/19/59

"The 40 th Anniversary of the Physico-Chemical Institute imeni L. Ya. Karpov" /unsigned article/, Zhurnal Fizicheskoy Khimii, Vol 32, No 12, Dec 58, pp 2657-2662.

SIR T-16.

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

NCH-202 507 Field 7D

Sinytsina, Z. A.
THE INHIBITING EFFECT AND THE STRUCTURE OF INHIBITORS. 2. THE INHIBITED POLYMERIZATION OF METHYLACRYLATE. 1965, 16p. TC-1221.
Order from TC: $15.00 as TC-1221

Trans. of Zhurnal Fizicheskoe Khimii (USSR) v32 n12 p2663-73 1958.

I. Trans-Chem
Knoxville, Tenn.
II. Title: Inhibited. . .

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

The Electrochemical and Corrosion Behavior of Steel and Nickel Electrodes in Sulphuric Acid Solutions Subjected to the Action of Rays, by N. Ya. Buné, Ya. M. Kolotyrkin, G. S. Tyurikov, 11 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol. XXXII, 1958, pp 2679-2685.

AEC MP Tr-445

Sci - Chem

125 748

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Relation Between the Energy Yield and the Kinetics of a Radiation-Chemical Reaction, by S. Ya. Pshezhetskiy, M. T. Dmitryev. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 12, 1958, pp 2686-2689.

Navy 2211/NRL 727

Sci - Physics, Chem
Jul 59

92,828

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Shatenshtein, A. I. and Izrailevich, E. A.
COMPARISON OF DEUTERO EXCHANGE AND METALATION OF ALKYL BENZENES. [1962] [9]p. 30 refs.
Order from OTS or SLA $1.10 63-15923

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1958 [v. 32] no. 12, p. 2711-2716.

DESCRIPTORS: *Metalorganic compounds, *Potassium compounds, Amides, *Alkyl radicals, *Benzenes, *Deuterated compounds, Exchange reactions, *Metalation, Reaction kinetics

The rate of deutero exchange between a solution of potassamide (0.02N) in liquid deuterammonia and the aromatic rings and alkyl groups of the following alkyl benzenes: $C_6H_5CH_3$, iso-$C_6H_5C_3H_7$, tert-$C_6H_5C_4H_9$, and n-$C_6H_5C_4H_9$ has been measured at 25, 10, and 0°C. It has been found that deutero exchange and the metalit-
(Chemistry--Physical, TT, v. 10, no. 1) (over)

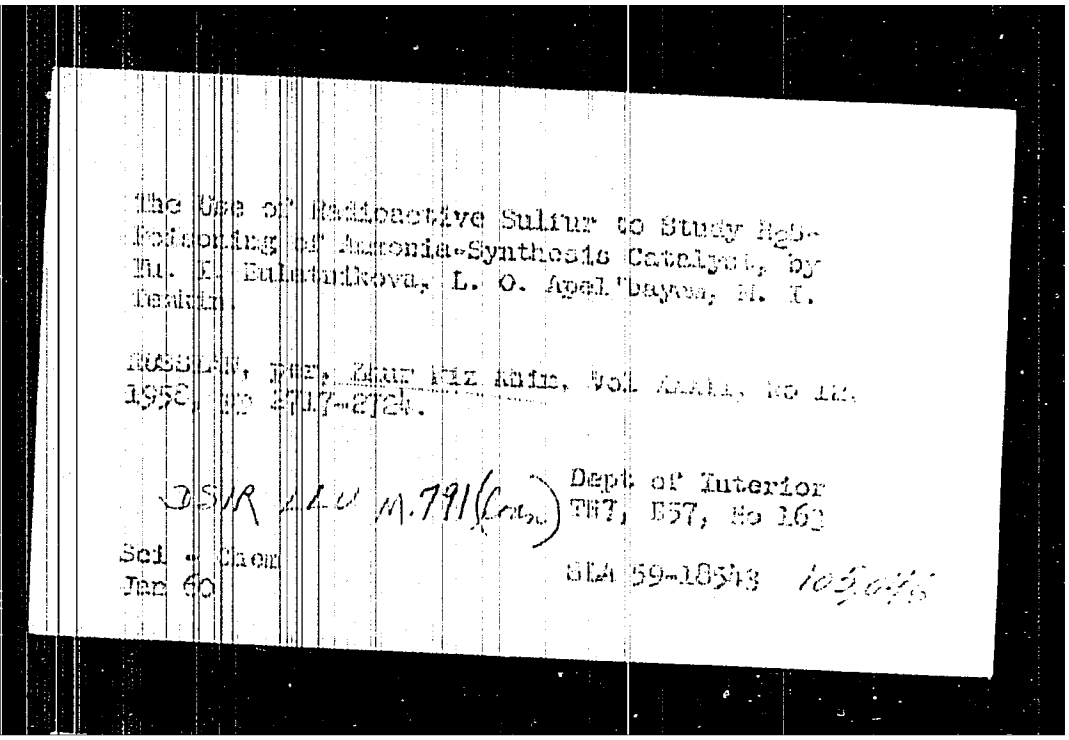
63-15923

I. Shatenshtein, A. I.
II. Izrailevich, E. A.
III. Translations, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



The Use of Radioactive Sulfur to Study Poisoning of Ammonia-Synthesis Catalysts, by Yu. E. Bulanitskaya, L. O. Apel'baum, M. I. Temkin.

Russian, Zhur Fiz Khim, Vol XXXII, No 11, 1958, pp 2417-2424.

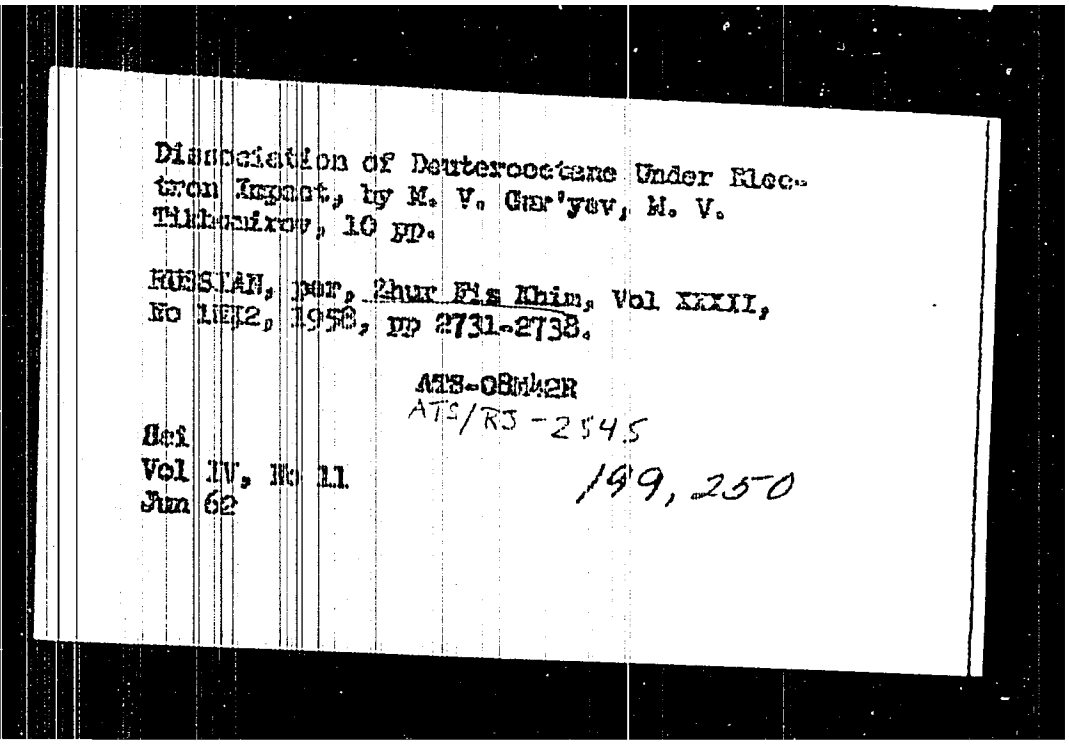
DSIR 44 W.791(Cat.) Dept of Interior TW7, B57, No 162

Sel - Chem
Jan 60

GIA 59-18513

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Dissociation of Deuterooctane Under Electron Impact, by M. V. Gar'yev, M. V. Tikhonikova, 10 pp.

RUSSIAN, pur, Zhur Fiz Khim, Vol XXXII, No 12, 1958, pp 2731-2738.

ATS-08442R
ATS/RS-2545

Bel
Vol IV, No 11
Jun 62

199,250

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Boreskov, G. K.
CATALYST INTERACTION WITH THE REACTION SYSTEM. [1963] 10p. 20 refs.
Order from OTS or SLA $1.10 63-14330

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1958, v. 32 [no. 12] p. 2739-2747.

DESCRIPTORS: *Catalysts, Chemical reactions, Theory, Metals, Oxides, Reaction kinetics.

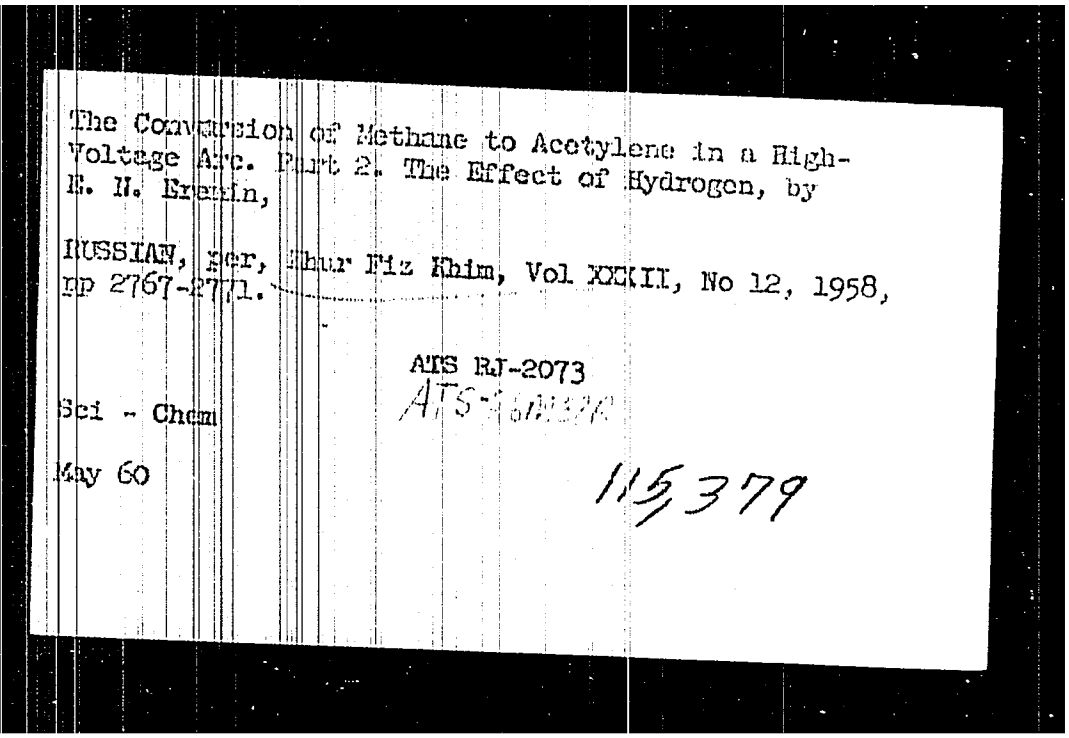
In the course of a catalytic reaction, besides the action of the catalyst on the reagents, there is always an action on the reacting system on the catalyst leading to changes in its composition and consequently in its properties. To each composition of the reacting mixture there corresponds a definite, steady state composition of the catalyst depending upon the ratio of the rates of interaction between the catalyst and the (Chemistry--Physical, TT, v. 10, no. 3) (over)

63-14330
I. Boreskov, G. K.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



The Conversion of Methane to Acetylene in a High-Voltage Arc. Part 2. The Effect of Hydrogen, by E. N. Eremin,

RUSSIAN, Zer, Zhur Fiz Khim, Vol XXXII, No 12, 1958, pp 2767-2771.

AMS RJ-2073
ATS-[illegible]

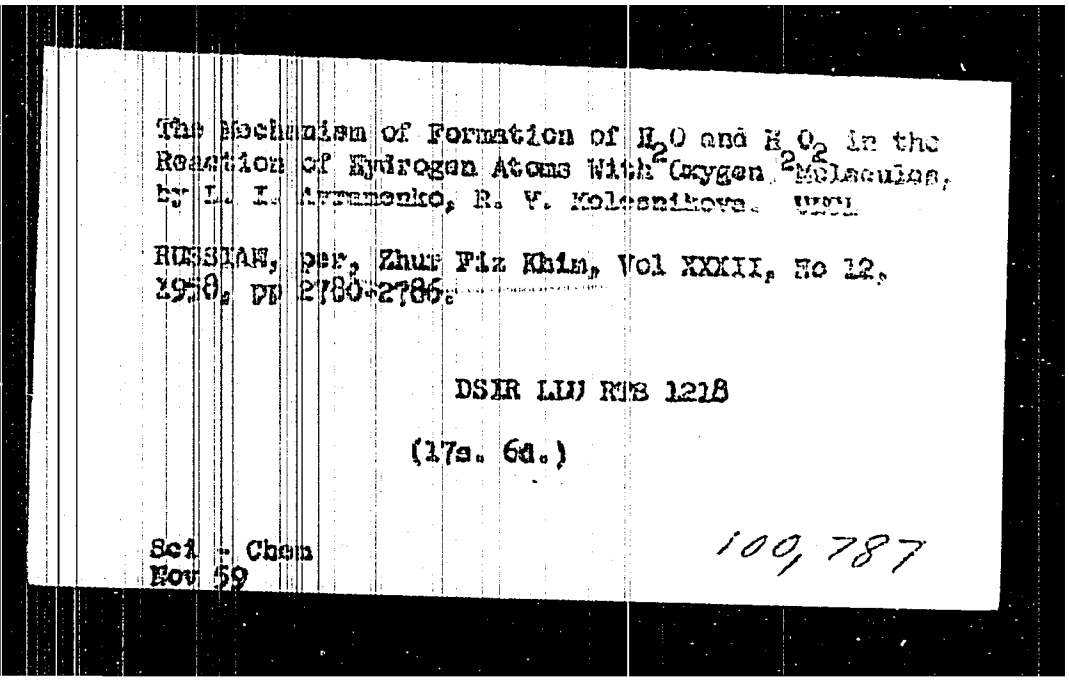
Sci - Chem

May 60

115379

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



The Mechanism of Formation of H_2O and H_2O_2 in the Reaction of Hydrogen Atoms With Oxygen Molecules, by L. I. Avramenko, R. V. Kolesnikova. USSR

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 12, 1958, pp 2780-2786.

DSIR LUU RMB 1218

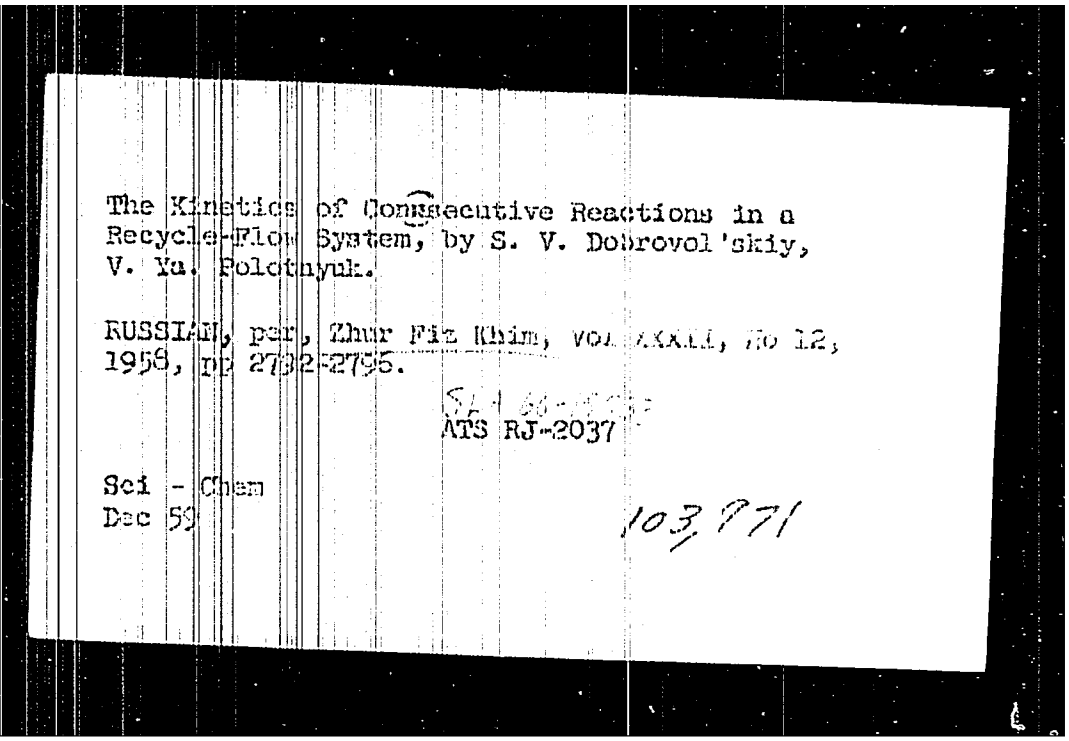
(17a. 6d.)

Sci - Chem
Nov 59

109,787

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



The Kinetics of Consecutive Reactions in a Recycle-Flow System, by S. V. Dobrovol'skiy, V. Ya. Polotnyuk.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 12, 1958, pp 2792-2795.

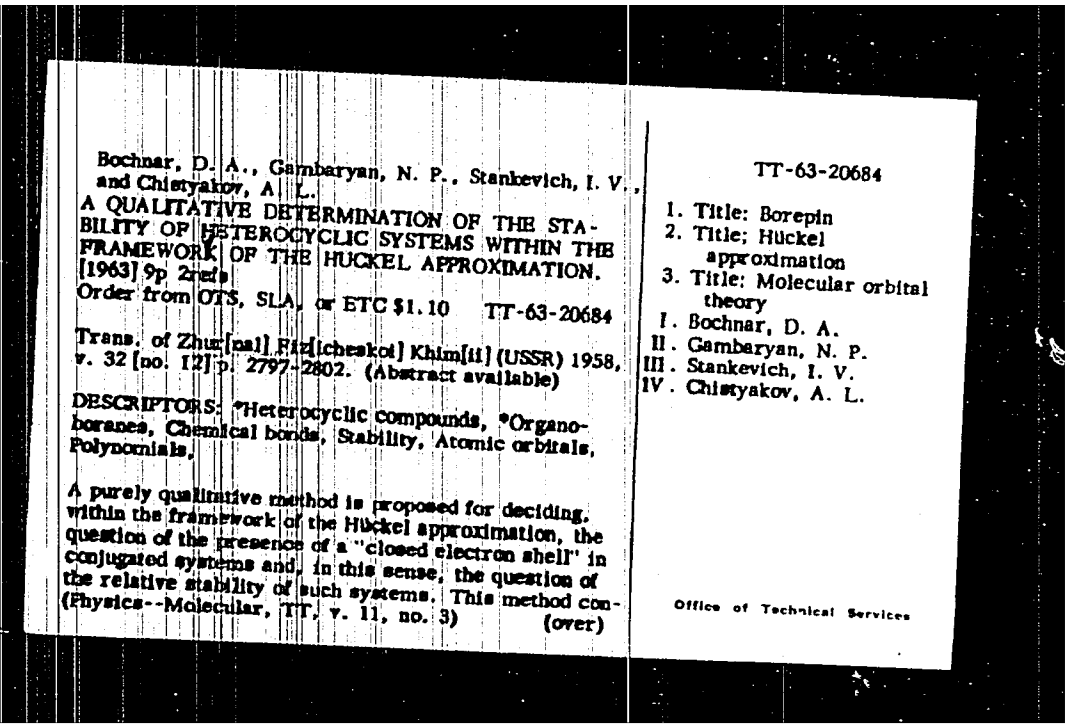
ATS RJ-2037

Sci - Chem
Dec 59

103 771

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Bochnar, D. A., Gambaryan, N. P., Stankevich, I. V., and Chistyakov, A. L.
A QUALITATIVE DETERMINATION OF THE STABILITY OF HETEROCYCLIC SYSTEMS WITHIN THE FRAMEWORK OF THE HUCKEL APPROXIMATION. [1963] 9p 2ref.
Order from OTS, SLA, or ETC $1.10 TT-63-20684

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1958, v. 32 [no. 12] p. 2797-2802. (Abstract available)

DESCRIPTORS: *Heterocyclic compounds, *Organoboranes, Chemical bonds, Stability, Atomic orbitals, Polynomials.

A purely qualitative method is proposed for deciding, within the framework of the Hückel approximation, the question of the presence of a "closed electron shell" in conjugated systems and, in this sense, the question of the relative stability of such systems. This method con-
(Physics--Molecular, TT, v. 11, no. 3) (over)

TT-63-20684

1. Title: Borepin
2. Title; Hückel approximation
3. Title: Molecular orbital theory

I. Bochnar, D. A.
II. Gambaryan, N. P.
III. Stankevich, I. V.
IV. Chistyakov, A. L.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Thermochemistry of Isotopes. X I. Calorimetric Investigation of the Heat of Formation of Hydrogen Sulfide and Deuterium Sulfide, by A. F. Kapustinskiy, R. T. Kan'kovskiy, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 12, 1958, pp 2810-2816.

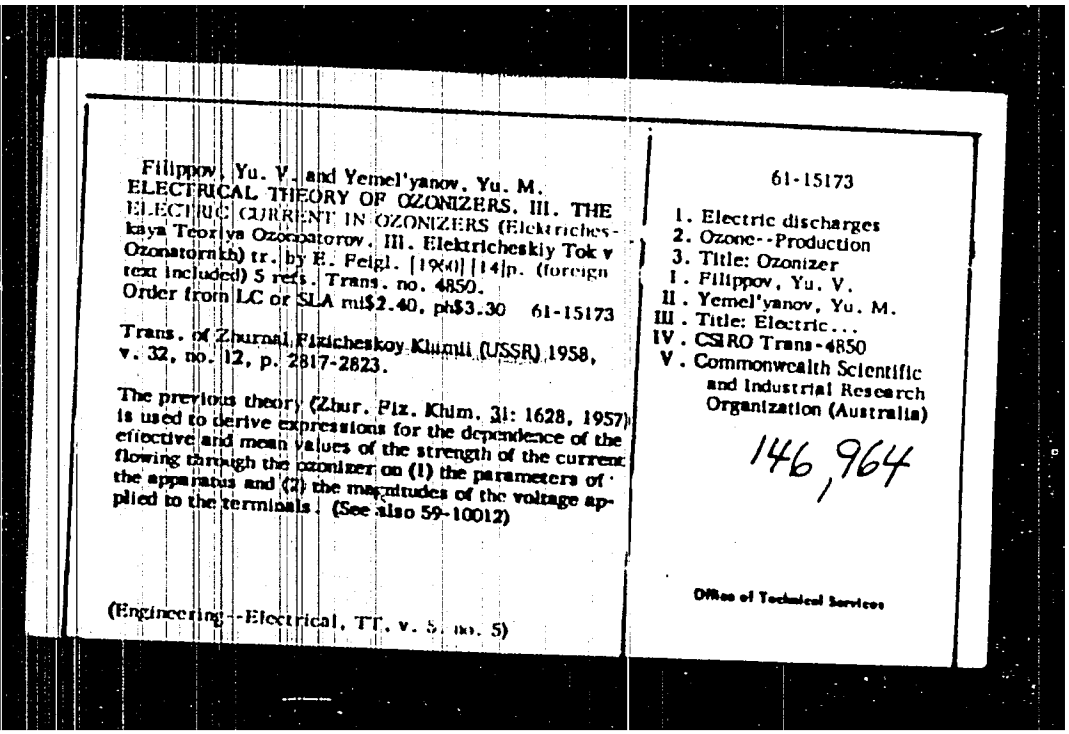
US Dept of Commerce
National Bur of Standards

Sci - Phys
May 61

148,772.

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



Filippov, Yu. V. and Yemel'yanov, Yu. M.
ELECTRICAL THEORY OF OZONIZERS. III. THE ELECTRIC CURRENT IN OZONIZERS (Elektricheskaya Teoriya Ozonatorov. III. Elektricheskiy Tok v Ozonatornikh) tr. by E. Feigl. [1960] [14]p. (foreign text included) 5 refs. Trans. no. 4850.
Order from LC or SLA ml$2.40, ph$3.30 61-15173

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 12, p. 2817-2823.

The previous theory (Zhur. Fiz. Khim. 31: 1628, 1957) is used to derive expressions for the dependence of the effective and mean values of the strength of the current flowing through the ozonizer on (1) the parameters of the apparatus and (2) the magnitudes of the voltage applied to the terminals. (See also 59-10012)

(Engineering--Electrical, TT. v. 5, no. 5)

61-15173

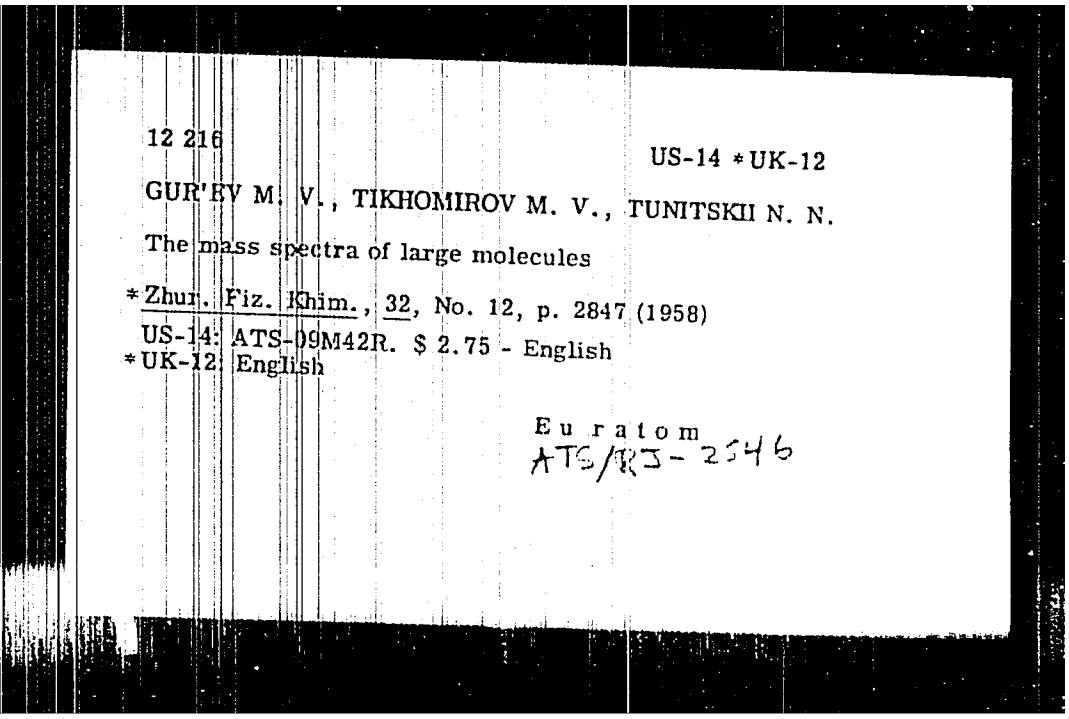
1. Electric discharges
2. Ozone--Production
3. Title: Ozonizer
I. Filippov, Yu. V.
II. Yemel'yanov, Yu. M.
III. Title: Electric...
IV. CSIRO Trans-4850
V. Commonwealth Scientific and Industrial Research Organization (Australia)

146,964

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



12 216 US-14 *UK-12

GUR'EV M. V., TIKHOMIROV M. V., TUNITSKII N. N.

The mass spectra of large molecules

*Zhur. Fiz. Khim., 32, No. 12, p. 2847 (1958)

US-14: ATS-09M42R. $ 2.75 - English
*UK-12: English

Euratom
ATS/RJ-2546

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

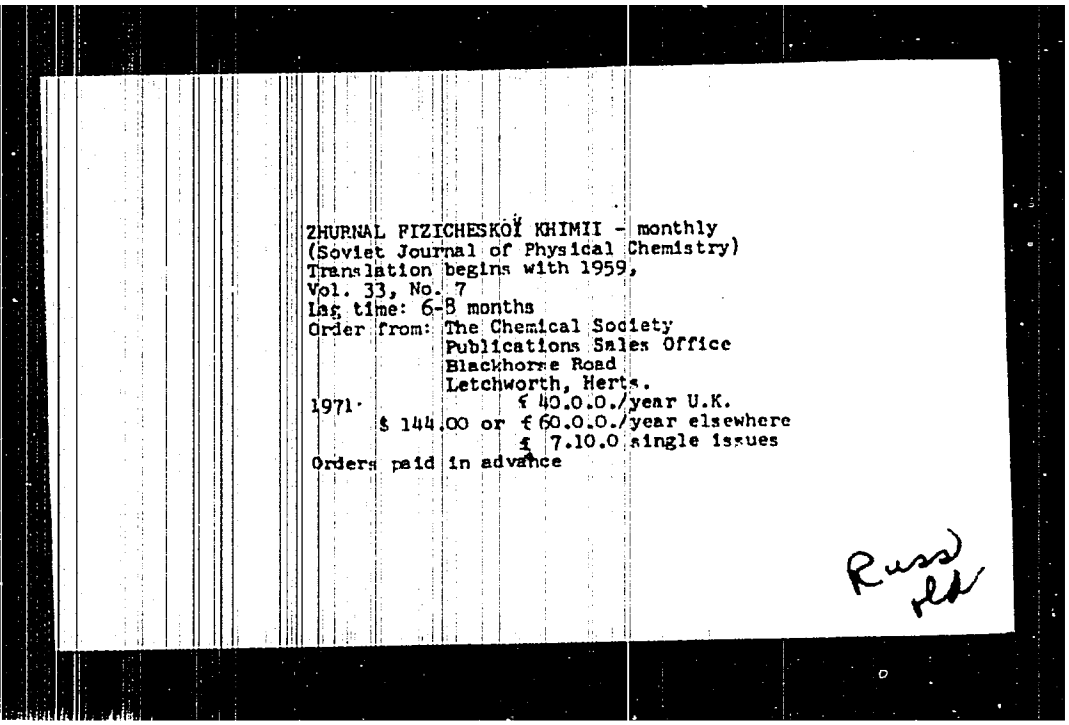
The Synthesis of Some Deuterated Aromatic Hydrocarbons and their Raman Spectra, by A. I. Shatenshtein.
RUSSIAN, par. Zh Fiz Khim, Vol 32, No 1, 1958, pp 146-151.
HEW-NIH
12-4-67

Sci/B & M
Feb 68

349,425

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

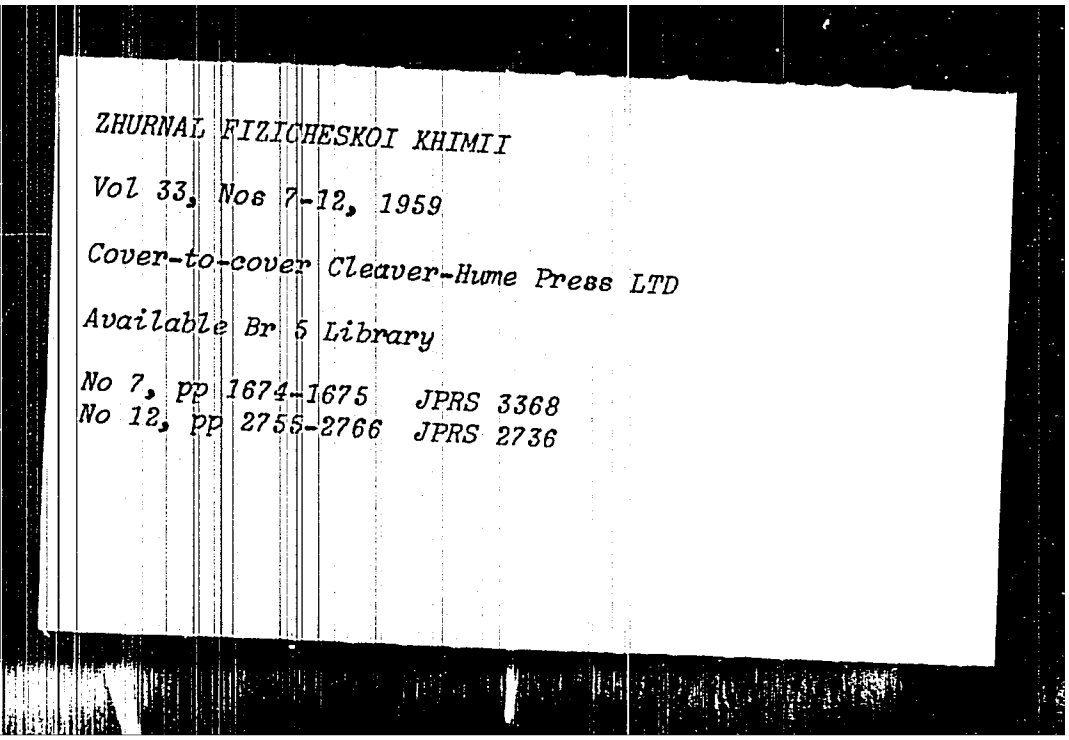


ZHURNAL FIZICHESKOĬ KHIMII - monthly
(Soviet Journal of Physical Chemistry)
Translation begins with 1959,
Vol. 33, No. 7
Lag time: 6-8 months
Order from: The Chemical Society
Publications Sales Office
Blackhorse Road
Letchworth, Herts.
1971 £ 40.0.0./year U.K.
$ 144.00 or £ 60.0.0./year elsewhere
£ 7.10.0 single issues
Orders paid in advance

Russ
pb

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3



ZHURNAL FIZICHESKOI KHIMII

Vol 33, Nos 7-12, 1959

Cover-to-cover Cleaver-Hume Press LTD

Available Br 5 Library

No 7, pp 1674-1675 JPRS 3368
No 12, pp 2755-2766 JPRS 2736

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Viscosity Measurements with Microamounts of Liquid, by V. S. Bondarenko.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 38, 1964, pp 1273-1275.
NTC 71-14363-07D

Mar 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

(NY-4844)

CO + O_3 Flame Radiation and the Mechanism of This Reaction, by M. Zatoiorskiy, V. Kondrat'ev, S. Solnyshkova, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 12, 1960, pp 1521-1527.

JPRS 7532

Sci - Chem

Feb 61

139.35-6

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3

Electrosynthesis of O3. I. Kinetics of the Synthesis of O3 Under Flow Conditions, by Yu. V. Filippov, Yu. N. Emel'yanov.
RUSSIAN, per, Zh Fiz Khim, Vol 35, 1961, pp 407-415.
AEC-tr-Trans-522

Sci-Chem
Jan 63

348,751

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290047-3